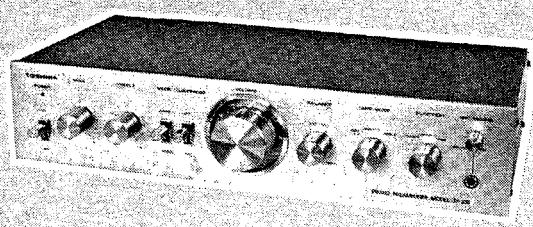
TOSHIBA

STEREO PREAMPLIFIER

SY-335



SPECIFICATIONS

Input Sensitivity/ Impedances:	PHONO 2.5mV/47K ohm TUNER 150mV/47K ohm AUX/TAPE 150mV/47K ohm MIC 2mV/47K ohm
Output Levels:	TAPE REC 150mV PRE OUT 1V
Total Harmonic Distortion:	0.1%
S/N (IHF A Network):	PHONO 70 dB AUX 90 dB
Tone Control	BASS (at 100 Hz) ±10 dB TREBLE (at 10 kHz) ±10 dB
Frequency Responses:	AUX 20 Hz ~ 40 kHz ±1 dB PHONO 30 Hz ~ 15 kHz ±0.5 dB (RIAA equalization)
Phono Overload Level:	150mV (0.1%)
General	
Power Supply:	AC 220V, 50 Hz (Europe) AC 240V, 50 Hz (England)
Power Consumption:	5W
Weight:	3.0 kg
Dimensions (W x H x D):	420 x 96 x 241 (mm)

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1. BLOCK DIAGRAM

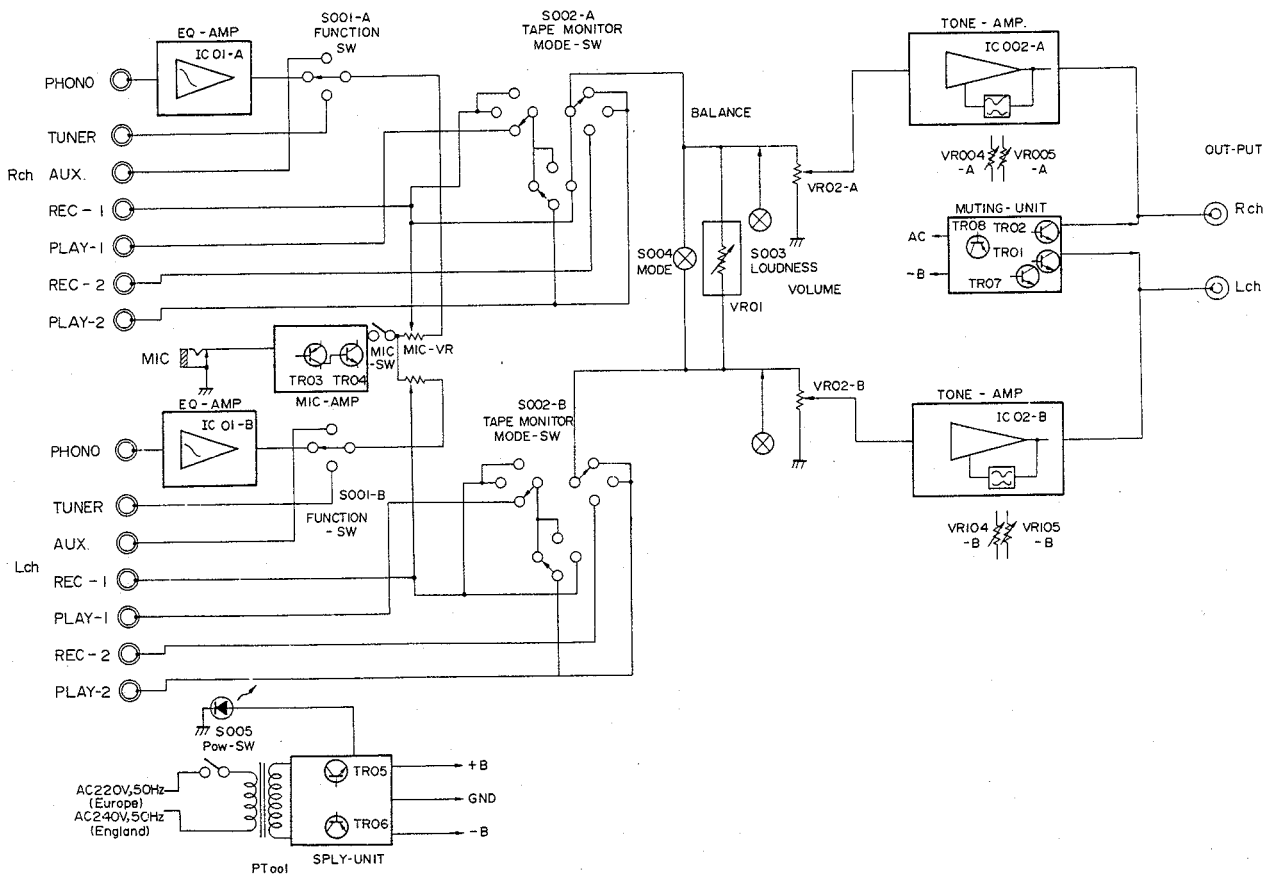

Figure 1.

2. OPERATING CONTROLS

FRONT VIEW

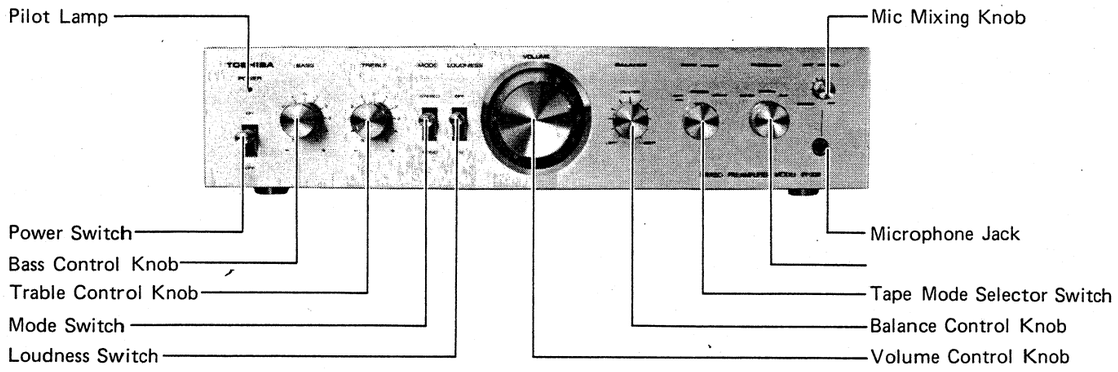

Figure 2.

REAR VIEW

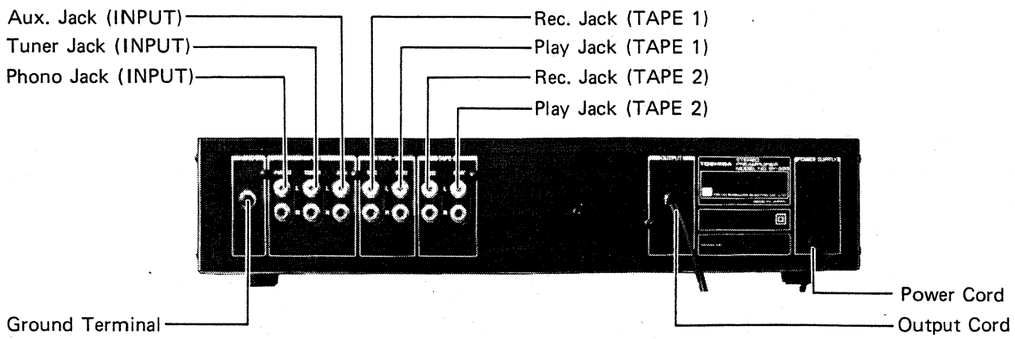

Figure 3.

3. DISASSEMBLY INSTRUCTIONS

TOP COVER REMOVAL

Remove four screws ①. See figure 4.

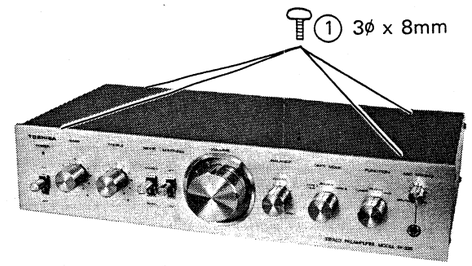

Figure 4.

BOTTOM COVER REMOVAL

Remove four screws ②. See figure 5.

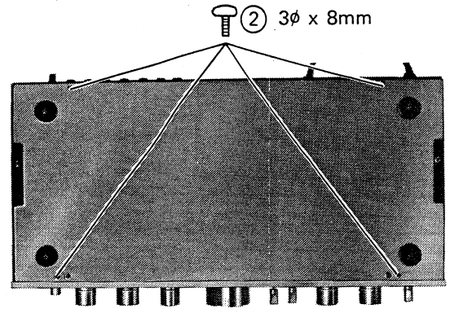

Figure 5.

FRONT PANEL REMOVAL

Remove the Top Cover and Bottom Cover. See figure 4 and 5.
Remove ten knobs ③. See figure 6.
Remove two screws ④. See figure 6.

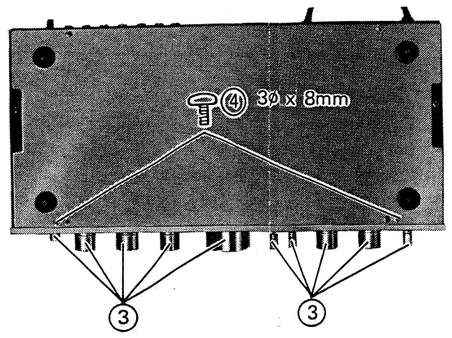

Figure 6.

4. SCHEMATIC DIAGRAM

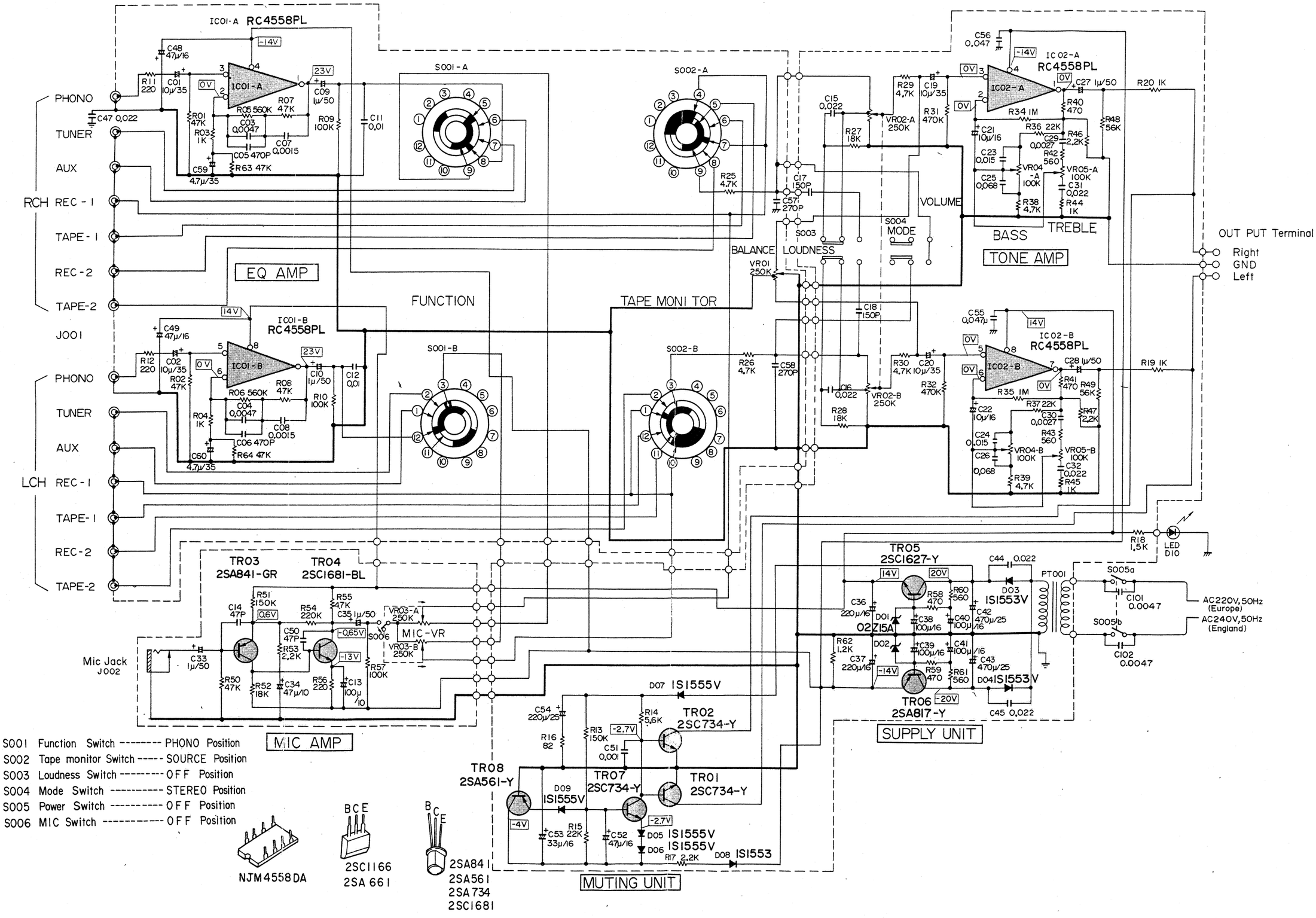

Figure 7.

5. ELECTRICAL PARTS LOCATIONS

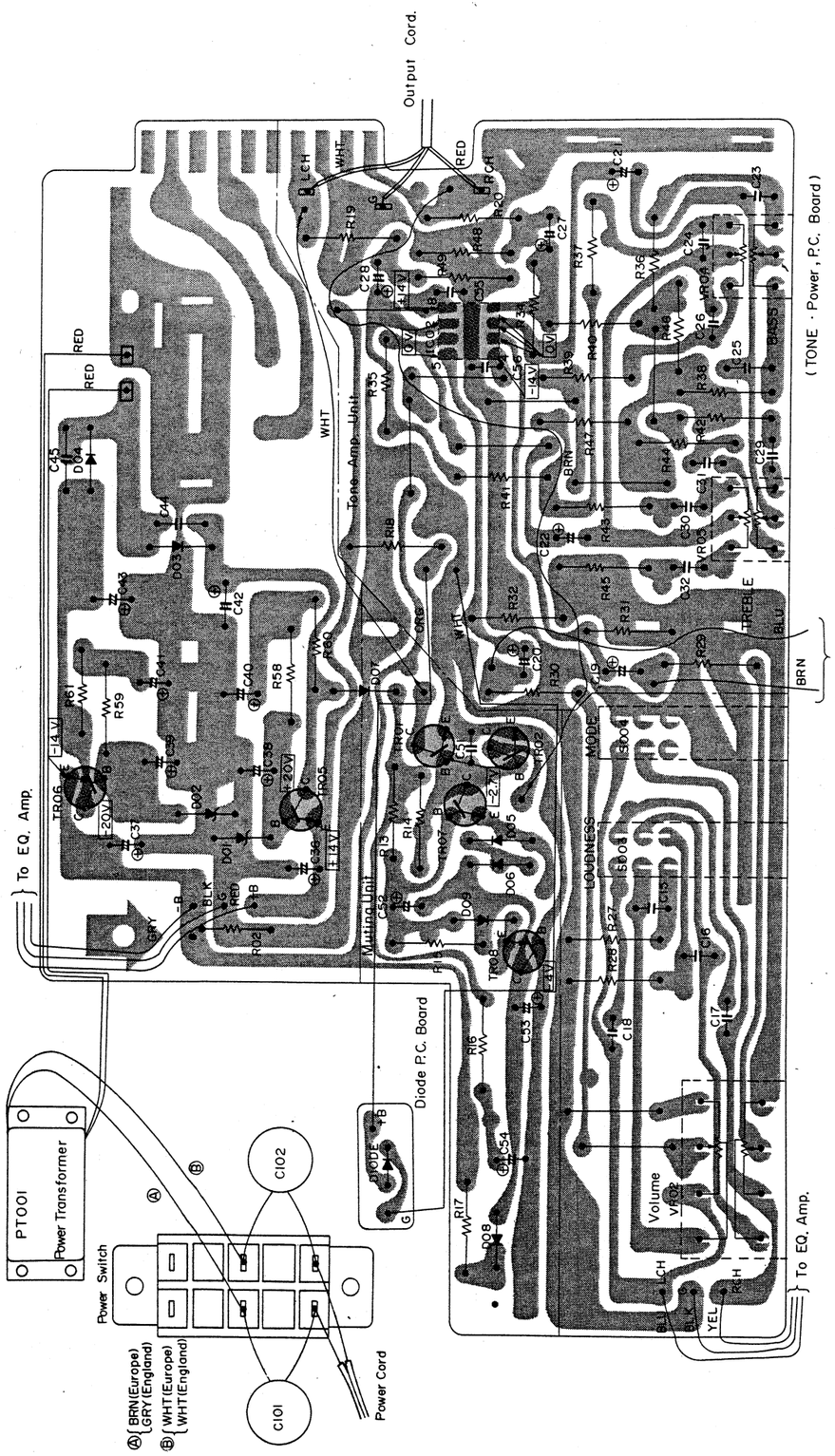

Figure 8. Power Supply P.C. Board

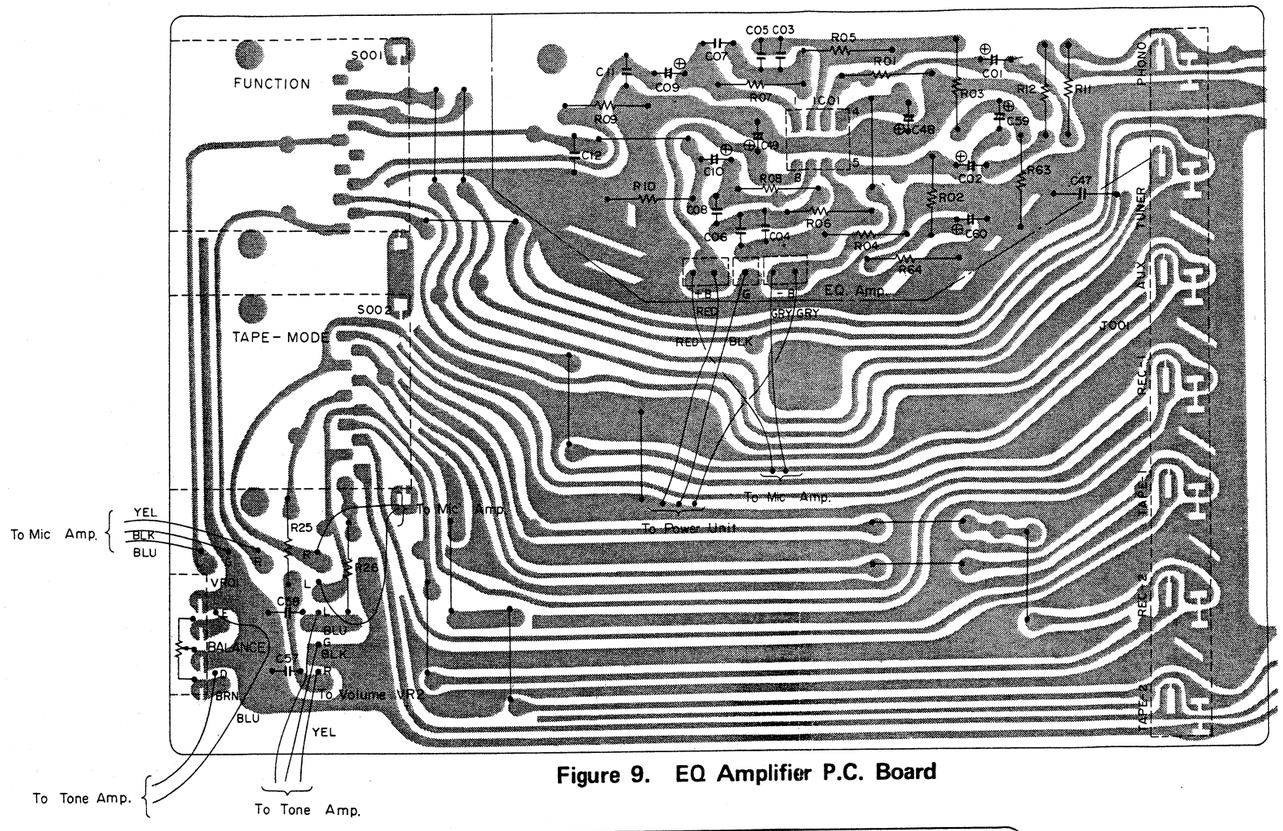

Figure 9. EQ Amplifier P.C. Board

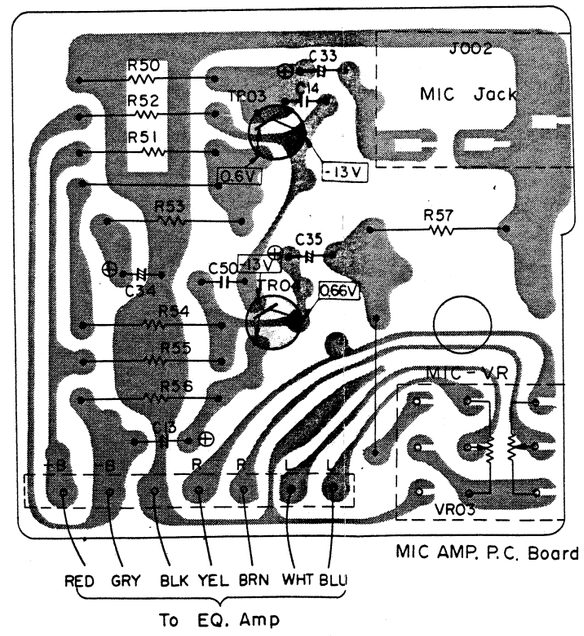

Figure 10. Mic P.C. Board

6. CABINET PARTS LOCATIONS

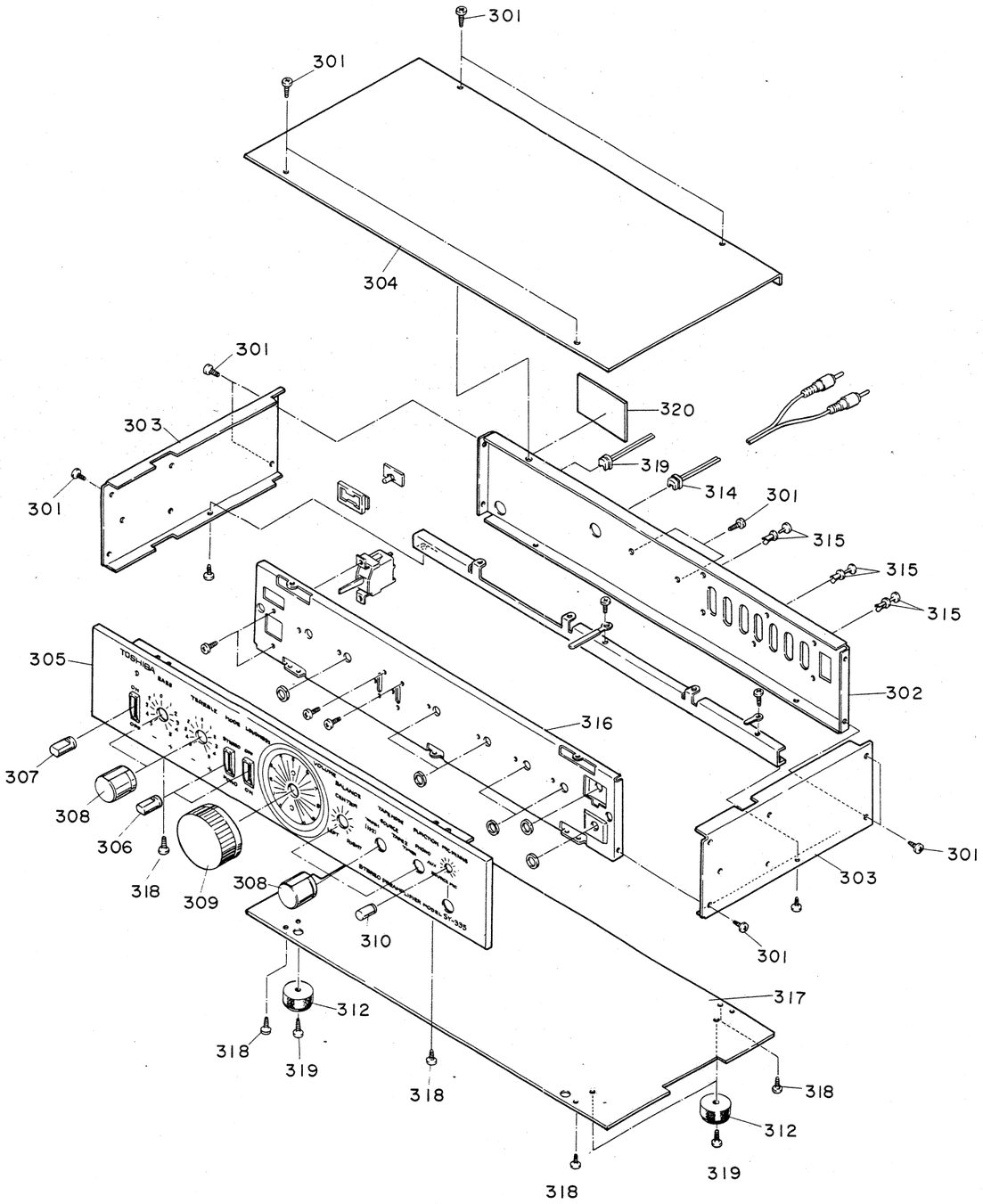

Figure 11.

7. PARTS LIST

Symbol No.	Part No.	Description
		TRANSISTORS, DIODE AND IC'S
TR01, 02		Transistor, 2SC734-Y
TR03		Transistor, 2SA841-GR
TR04		Transistor, 2SC1681-BL.JA
TR05		Transistor, 2SC1166-Y
TR06		Transistor, 2SA661-Y
TR07		Transistor, 2SC734-Y
TR08		Transistor, 2SA561-Y
D01, 02		Diode, 02Z15A
D03, 04		Diode, 1S1553V
D05, 06		Diode, 1S1555V
D07		Diode, 1S1555V
D08		Diode, 1S1553V
D09		Diode, 1S1555V
D10	22115383	Diode, SEL103S
IC01	22114635	IC, RC4558-P-L
IC02	22114635	IC, RC4558-P-L
		ELECTRICAL PARTS
S001	22146253	Switch, Rotary, Function
S002	22146208	Switch, Rotary, Tape Mode
S003	22146201	Switch, Lever, Loudness
S004	22146201	Switch, Lever, Mode
S005	22195049	Switch, Lever, Power
J001	22163606	Jack, US14P
J002	22163616	Jack, Microphone
	22170352	Cord, US PIN
PT001	22223171	Transformer, Power (Europe)
	22223172	Transformer, Power (England)
	22176286	Cord, Power (Europe)
	22176536	Cord, Power (England)
		CAPACITORS J = ±5%, K = ±10%, M = ±20%, Z = –20 to +80%
C01, 02	22467100	Electrolytic, 10mfd, 35V
C03, 04	22371472	Mylar, 0.0047mfd, 50V, J
C05, 06	22321053	Polypropylene, 470pF, 50V, J
C07, 08	22371152	Mylar, 0.0015mfd, 50V, J
C09, 10	22468109	Electrolytic, 1mfd, 50V
C11, 12	22373103	Mylar, 0.01mfd, 50V, M
C13	22443101	Electrolytic, 100mfd, 10V
C14	22362470	Ceramic, 47pF, 50V, K
C15, 16	22372223	Mylar, 0.022mfd, 50V, K
C17, 18	22362151	Ceramic, 150pF, 50V, K
C19, 20	22467100	Electrolytic, 10mfd, 35V
C21, 22	22445100	Electrolytic, 10mfd, 16V
C23, 24	22372153	Mylar, 0.015mfd, 50V, K
C25, 26	22372683	Mylar, 0.068mfd, 50V, K
C27, 28	22468109	Electrolytic, 1mfd, 50V
C29, 30	22372272	Mylar, 0.0027mfd, 50V, K
C31, 32	22372223	Mylar, 0.022mfd, 50V, K

Symbol No.	Part No.	Description
C33	22468109	Electrolytic, 1mfd, 50V
C34	22443470	Electrolytic, 47mfd, 10V
C35	22468109	Electrolytic, 1mfd, 50V
C36, 37	22445221	Electrolytic, 220mfd, 16V
C38, 39	22445101	Electrolytic, 100mfd, 16V
C40, 41	22445101	Electrolytic, 100mfd, 16V
C42, 43	22446471	Electrolytic, 470mfd, 25V
C44, 45	22343223	Ceramic, 0.022mfd, 50V, Z
C47	22342223	Ceramic, 0.022mfd, 50V, Z
C48, 49	22445470	Electrolytic, 47mfd, 16V
C50	22362470	Ceramic, 47pF, 50V, K
C51	22373102	Mylar, 0.001mfd, 50V, M
C52	22445470	Electrolytic, 47mfd, 16V
C53	22445330	Electrolytic, 33mfd, 16V
C54	22446221	Electrolytic, 220mfd, 25V
C55, 56	22342473	Ceramic, 0.047mfd, 50V, Z
C57, 58	22343271	Ceramic, 270pF, 50V, M
C59, 60	22467479	Electrolytic, 4.7mfd, 35V
C101, 102	22340090	Ceramic, 0.0047mfd, 250V, Z
		RESISTORS All resistors are 1/4W, ±5%, carbon film resistor unless otherwise noted.
R01, 02	22545473	47K ohm
R03, 04	22545102	1K ohm
R05, 06	22545564	560K ohm
R07, 08	22545473	47K ohm
R09, 10	22545104	100K ohm
R11, 12	22545221	220 ohm
R13	22545154	150K ohm
R14	22545562	5.6K ohm
R15	22545223	22K ohm
R16	22545820	82 ohm
R17	22545222	2.2K ohm
R18	22545152	1.5K ohm
R19, 20	22545102	1K ohm
R25, 26	22545472	4.7K ohm
R27, 28	22545183	18K ohm
R29, 30	22545472	4.7K ohm
R31, 32	22545474	470K ohm
R34, 35	22545105	1M ohm
R36, 37	22545223	22K ohm
R38, 39	22545472	4.7K ohm
R40, 41	22545471	470 ohm
R42, 43	22545561	560 ohm
R44, 45	22545102	1K ohm
R46, 47	22545222	2.2K ohm
R48, 49	22545563	56K ohm
R50	22545473	47K ohm
R51	22545154	150K ohm
R52	22545183	18K ohm

Symbol No.	Part No.	Description
R53	22545222	2.2K ohm
R54	22545224	220K ohm
R55	22545472	4.7K ohm
R56	22545221	220 ohm
R57	22545104	100K ohm
R58, 59	22545471	470 ohm
R60, 61	22545561	560 ohm
R62	22545122	1.2K ohm
R63, 64	22545473	47K ohm
VARIABLE RESISTORS		
VR01	22620014	250K ohm, Balance
VR02	22650438	250K ohm, Volume
VR03	22651454	250K ohm, Mic Mixing
VR04, 05	22651431	100K ohm, Bass/Treble
CABINET PARTS		
301	22701326	Screw, 3ø x 8mm
302	22711565	Plate, Jack
303	22711448	Plate, Side
304	22711533	Cover, Top
305	22821365	Panel Ass'y
306	22824196	Knob, Mode/Loudness
307	22824215	Knob, Power
308	22826134	Knob, Bass/Treble/Balance/ Tape Mode/Function
309	22826195	Knob, Volume
310	22826152	Knob, Microphone Mixing
312	22874033	Leg
314	25845120	Bush, Cord
315	22705022	Rivet, Plastic, 3ø x 5.5mm
319	25845528	Bush, Cord
320	22950774	Nameplate (England)
ACCESSORY		
	22902034	Owner's Manual